

ABSTRACT OF THE DISCLOSURE

A system that permits biological samples to be viewed in three optical ways, including in three dimension (stereoscopic), two dimension (compound optic), and macro with reflected light fluorescence. Each of three optical views can be carried out on one
5 system. The system permits the user to sort samples under stereo fluorescence illumination and to verify structural detail under compound optic fluorescence illumination on one instrument. The three position rotating nosepiece houses one stereoscopic and two compound lenses. All lenses are parcenter and parfocal.